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NEX-5R/B

Shoot and share DSLR-quality photos online, straight from the camera. With built-in Wi-Fi®, the NEX-5R even lets you download camera apps for endless creative possibilities.[11] And the 16.1MP APS-C size sensor delivers breathtaking stills with pro-grade defocused backgrounds. All this and more in a camera that's about half the size of a DSLR.

16.1 MP APS-C size HD image sensor

The same sensor format that Sony builds into the full-sized DSLRs. With 13 times the area of the typical point-and-shoot image sensor, APS-C sensor size makes the difference between "snapshots" and "photographs," delivering an exceptional combination of high resolution, high sensitivity and gorgeous, blurred backgrounds.

Fast Hybrid AF

Sony's advanced Fast Hybrid AF combines two technologies for outstanding performance: Phase detection auto focus for quick response that is ideal when tracking fast-moving subjects and contrast-detection auto focus for added precision. A perfect match that delivers optimal Auto Focus for fast, precise focusing in any scene.

Full HD Movies[1] at 60p/60i/24p

Capture HD Movies in your choice of super-smooth 60p, standard 60i or cinematic 24p, all at Full HD 1920x1080 resolution.[1] AVCHD™ codec delivers stunning picture quality. MP4 codec offers smaller files for easier upload to the web.

Wi-Fi® Sharing

Wi-Fi® capability – a first for Alpha-series – lets users transfer photos directly to smartphones and tablets with the PlayMemories Mobile™ app. Wi-Fi capability allows for sharing, viewing and saving photos for expanded photo-shooting enjoyment. Photos can be easily transferred to smartphones and tablets, viewed on large screen TVs or saved to PC's.[11]

PlayMemories Camera Apps

Supports PlayMemories Camera Apps, the world's first application download service that lets users install new camera functions as needed.[11]

180-degree tilt-able 3.0" Touch LCD

The NEX-5R is equipped with a tilt-able LCD screen that flips up 180-degrees without sacrificing the compactness for which the 5-series is renowned for. This makes taking great self-portraits incredibly easy since users can precisely compose shots, choosing to include people or objects in the frame for more satisfying results.

Control Dial

Control dial, Fn (function) button and touch screen (including touch shutter function) greatly facilitate operation and getting the shot that much easier.

Picture Effect mode

There are 7 types (11 variations) of picture effects to choose from: Posterization (Color), Posterization (B/W), Pop Color, Retro Photo, Partial Color(R), Partial Color(G), Partial Color(B), Partial Color(Y), High-key, High Contrast Monochrome, Toy Camera. Each is unique and each give you a new and exciting way to make your images and videos pop.

6-image layering

The camera leverages the large, APS-C image sensor and captures six images in a fraction of a second. The camera then combines the data from the 6 different images up to ISO 25600 to create a single image. This method is used to control blur in Anti-Motion Blur mode or to get cleaner, sharper nighttime pictures in Hand-held Twilight mode.

Photo Creativity Touch interface

The Photo Creativity touch interface enables you to easily enjoy the creative expression of SLR-quality digital imaging without the complicated settings. Changes can be easily made using the control dial with results seen in real time on the LCD. Settings include; Background Defocus, Brightness, Color, Vividness and most Picture Effects.

Auto Portrait Framing

Simply photograph a person and Auto Portrait Framing will save an additional, optimally framed image in portrait or landscape orientation. Combining Face Detection and By Pixel Super Resolution technologies with rule of thirds, Auto Portrait Framing provides beautifully composed and appealingly balanced full resolution portraits.

Clear Image Zoom

Utilizing Sony's exclusive By Pixel Super Resolution Technology, Clear Image Zoom increases the effective focal length of your lens up to 2x by digitally magnifying the center of your image with nearly imperceptible degradation. It virtually doubles the effective focal length of whatever lens you're using providing greater shooting flexibility.

Convenient USB charging

Easily recharge the camera via USB charging. Simply connect the bundled USB cable and recharge the battery without removing it from the camera, either via AC outlet or PC connection.

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Multi-interface terminal

Multi-interface Smart Accessory 2 shoe greatly expands the connectivity options such as external flash units.

Auto HDR built into camera

High Dynamic Range (HDR) photography captures more scene contrast than a single exposure can handle by combining the best highlight detail from one shot and the best shadow detail from another for one incredible shot. Handles severe backlighting and other high-contrast scenes. Captures in a split second. (Recommended for still subjects.)

Sweep Panorama™ Technology

Capture expansive landscapes automatically. Press the shutter, sweep vertically or horizontally. The camera does the rest, continuously shooting images and stitching them together. Up to 23 MP image size. Up to 202 degrees maximum sweep angle (18mm focal length).

Specifications

Camera	
Lens Compatibility	Sony E-mount lenses
Camera Type	Sony E-mount interchangeable lens digital camera
Imaging Sensor	
Imaging Sensor	Exmor™ APS HD CMOS sensor (23.5 X 15.6mm)
Anti Dust	Charge protection coating on Optical Filter and ultrasonic vibration mechanism
Pixel Gross	Approx. 16.7 megapixels
Effective Picture Resolution	Approx. 16.1 megapixels
Focal Length Conversion Factor	1.5x
Color Filter System	RGB primary color filters
Recording	
Media Type	Memory Stick PRO Duo™, Memory Stick PRO-HG Duo™, SD memory card, SDHC memory card, SDXC memory card
Color Space	sRGB, AdobeRGB
Still Image Mode	JPEG (Standard, Fine), RAW, RAW+JPEG
Still Image Size 16:9	L: 4912 x 2760 (14M), M: 3568 x 2000 (7.1M), S: 2448 x 1376 (3.4M)
Still Image Size 3:2	L: 4912 x 3264 (16M),M: 3568 x 2368 (8.4M),S: 2448 x 1624 (4M)
Panorama Still Image Size	Horizontal Wide: 12,416 x 1,856 (23M), Vertical : 5,536 x 2,160 (12M), Horizontal Std: 8,192 x 1,856 (15M), Vertical Std: 3,872 x 2,160 (8.4M)
Video Format	AVCHD Ver. 2.0 (Progressive), AVCHD, MP4
Video Mode	AVCHD: PS - 1920 x 1080/60p@28Mbps FX - 1920 x 1080/60i@24Mbps FH - 1920 x 1080/60i@17Mbps FX - 1920 x 1080/24p@24Mbps FH - 1920 x 1080/24p@17Mbps MP4: HD - 1440 x 1080/ 30fps@12Mbps VGA - 640 x 480/ 30fps@3Mbps
Audio Format	Dolby Digital (AC-3) / MPEG-4 AAC-LC, 2ch
Microphone/ Speaker	Built-in stereo microphones or ECM-SST1 (sold separately) / Built-in, monaural speaker (volume settings in 8 steps between 0 and 7)
Still Image File Format	JPEG (DCF Ver. 2.0, Exif Ver.2.3, MPF Baseline compliant), RAW (Sony ARW 2.3 format)
Optics/Lens	
Lens Mount Type	Sony E-mount lenses
Digital Zoom	Approx. 4x (still images and movie)
Smart Zoom® Technology	M: approx. 1.4x, S:approx. 2x
LCD Display	
LCD Type	7.5cm (3.0-type) wide type TFT (921,600 dots)
Angle Adjustment	Up: Approx. 180 degrees, Down: Approx. 50 degrees
Brightness Control	Manual (5 steps between -2 and +2), Sunny Weather mode
Real-time image adjustment display	On/Off
Peaking	Yes (Level setting: High/Mid/Low/Off, Color: White/Red/ Yellow)
Customization	Graphic display/ Display all info/Big font size display/ No display info/ Levels/Histogram/ Viewfinder
Touch Panel	Yes (Touch Shutter)
Focus Control	
Focus System	Fast Hybrid AF (phase-detection AF/contrast-detection AF) with "Exmor" APS HD CMOS sensor
Focus Points	99 points (phase-detection AF), 25 points (contrast-detection AF)
AF Modes	AF-S: Single-shot AF, AF-C: Continuous AF
Focus Area	Multi Point (99 points(phase-detection AF), 25 points(contrast-AF)), Center-weighted, Flexible Spot
Focus Sensitivity	0 EV to +20 EV (at ISO100 conversion with F2.8 lens attached)
Manual Focus Assist	Yes MF assist (4.8x, 9.6x)
Focus Features	Predictive control, Focus lock, Eye-Start AF (with FDA-EV1S and LA-EA2(Sold separately))
AF Illuminator	Built-in, LED type (with a range of approx. 0.3-3.0m (with E PZ16-50mm F3.5-5.6 OSS attached))
Exposure System	
Picture Effect(s)	11 types (15 variations): Posterization (Color, B/W), Pop Color, Retro Photo, Partial Color (R,G,B,Y), High Contrast Mono, Toy Camera, Soft High-key, Soft Focus, HDR Painting, Rich-tone Mono, Miniature
Auto Exposure Lock	AE is locked when the shutter button is half pressed (ON/ OFF is available in MENU)
Creative Style	Standard, Vivid, Portrait, Landscape, Sunset, B/W (Contrast (-3 to +3steps), Saturation(-3 to +3steps), Sharpness(-3 to +3steps))
Exposure Bracketing	With 1/3, 2/3, 1, 2, 3EV increments, 3 frames
Exposure Compensation	Still images: +/- 3.0EV (1/3EV steps), Movies: +/- 2.0EV (1/3EV steps)
Exposure Settings	iAUTO, Superior Auto, Programmed AE (P), Aperture priority (A), Shutter-speed priority (S), Manual (M), Sweep Panorama, Scene Selection
ISO	Still images: Auto (ISO 100-3200), Selectable (ISO 100-25600) Movies: Auto (ISO 100-3200), Selectable (ISO 100-6400)
Metering	1200-zone evaluative metering
Metering Modes	Multi-segment, Center-weighted, Spot
Metering Sensitivity	0EV-20EV, (at ISO 100 equivalent with F2.8 lens)
Noise Reduction	Long Exposure NR: (On/Off, available at shutter speeds longer than 1 second) High ISO NR: (High/Normal/ Low)
Scene Mode(s)	Portrait, Landscape, Macro, Sports Action, Sunset, Night Portrait, Night View, Handheld Twilight, Anti Motion Blur

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White Balance Mode	Auto WB, Daylight, Shade, Cloudy, Incandescent, Fluorescent, Flash, C.Tem (2500 to 9900K), C.Filter (G7 to M7,A7 to B7), Custom
Drive System	
Drive Mode	Single-shot, Continuous shooting, Speed Priority continuous shooting, Self-timer, Bracketing, Remote Cdr
Self-timer	2s or 10s delay (single, continuous 3 or 5 frames)
Shutter Speeds	Still images: 1/4000 to 30s (Bulb). Movies: 1/4000 to 1/4 (1/3 steps) up to 1/60 in AUTO mode (up to 1/30 in Auto slow shutter)
Shutter Type	Electronically-controlled, vertical-traverse, focal-plane type
Flash	
Flash Compensation	+/- 2.0EV (1/3EV steps)
Flash Coverage	FOV coverage up to 16 mm (in the focal length)
Flash Metering System	Pre-flash TTL
Flash Modes	Autoflash, Fill-flash, Rear sync., Slow sync., Rear Sync., Flash Off
Flash Type	External flash (supplied) attachable to Smart Accessory Terminal "Smart Terminal II" (sold separately)
Guide Number	7 (in meters at ISO 100 equivalent)
Recycling Time	Approx. 4 sec.
Convenience Features	
Self Timer	Yes (3 sec delay/Off selectable)
Still Image Playback Options	Single, 6/12-frame index view, Enlarged display mode, Panorama (Standard), Panorama (Wide): 34x), Auto Review, Image orientation, Slideshow, Panorama scrolling, Folder selection, Delete, Protect
Video Playback Options	Forward/Rewind
Self Timer	Yes (3 sec delay/Off selectable)
Still Image Playback Options	Single, 6/12-frame index view, Enlarged display mode, Panorama (Standard), Panorama (Wide): 34x), Auto Review, Image orientation, Slideshow, Panorama scrolling, Folder selection, Delete, Protect
Video Playback Options	Forward/Rewind
Advanced Features	
Face Detection	On/On (Regist. Faces)/Off, Face Selection (maximum 8 detectables)
Smile Shutter™ technology	Smile shutter (selectable from 3 steps)
Tracking Focus	Yes (object tracking)
Auto High Dynamic Range	Yes, (Auto Exposure Difference, Exposure difference Level (1.0-6.0 EV at 1.0 EV step), off)
Shooting Tips	Yes
Sweep Panorama	Horizontal (Wide/ Standard), Vertical (Wide/Standard)
Interface	
HD Output	HDMI® (TypeC mini), BRAVIA Sync, Photo TV HD
PhotoTV HD	Yes
Weights and Measurements	
Dimensions (Approx.)	Approx. 4 3/8 x 2 3/8 x 1 9/16" (110.8 x 58.8 x 38.9mm) (WxHxD)
Weight (Approx.)	Approx. 7.7 oz (218g) (excl battery & media) Approx. 9.7 oz (276g) (w/ battery & media)
Power	
Battery Type	InfoLITHIUM® NP-FW50 (7.2V)
Number of Still Images	Approx. 330 images (CIPA standard)
Power Consumption (in Operation)	Still images:approx. 2.7W(w/ E PZ16-50mm F3.5-5.6 OSS lens attached),
Software	
Operating System Compatibility	Windows XP SP3, Windows Vista SP2, Windows 7 SP1, Mac OS X (v10.3-10.8)
Accessories	
Optional Accessories	AC Adaptor AC-PW20 (sold separately)
Supplied Accessories	Flash and flash case NP-FW50 rechargeable battery AC-UB10 AC adaptor Shoulder strap Body cap Micro USB cable CD-ROM

1. Records in up to 29 minutes segments.
2. In meters, ISO 100
3. Requires 3D HDTV, HDMI cable (at least 10.2 Gbps) and active 3D glasses sold seperately.
4. Not used
5. Attaching Sony A-mount lens requires LA-EA1 (note: Autofocus available with SSM and SAM series lenses when using LA-EA1) or LA-EA2 adaptors (sold separately).
6. Compatible with BRAVIA® Sync or Theatre Sync™ HDTVs connected via HDMI®.
7. Actual performance varies based on settings, environmental conditions, and usage. Battery capacity decreases over time and use.
8. Requires compatible BRAVIA® HDTV and HDMI® cable sold separately.
9. Auto Focus function available with Sony E-Mount lenses and Sony A-mount SSM and SAM series lenses when using LA-EA1.
10. Files compatible with iMovie® '09 or later on Mac. Software not compatible with Mac OS® X.
11. Requires an active 802.11 Wi-Fi network (802.11n recommended) or PlayMemories Mobile™ app installed on compatible Android™ or iOS device. PlayMemories camera apps require download with existing Sony Entertainment Network account. Download available in all countries/areas where Sony Entertainment Network is available.

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